Memory Module Specification

KHX6400D2LLK2/1GN

1GB (512MB 64M x 64-Bit x 2 pcs.)
PC2-6400 CL4 240-Pin DIMM Kit

DESCRIPTION:

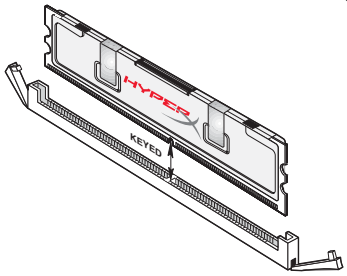
Kingston's KHX6400D2LLK2/1GN is a kit of two low-latency 64M x 64-bit (512MB) DDR2-800 CL4 SDRAM (Synchronous DRAM) memory modules that are NVIDIA® SLI™-Ready. Both modules are based on eight 64M x 8-bit DDR2 FBGA components per module. Total kit capacity is 1GB (1024MB). Each module pair has been tested to run at DDR2 800MHz at low latency timing of 4-4-4-12 at 2.0V. The SPD is programmed to JEDEC standard latency 800Mhz timing of 5-5-5-15-2T at 1.9V. Each 240-pin DIMM uses gold contact fingers and requires +1.8V. Modules are intended for use with NVIDIA® SLI™ certified solutions. The electrical and mechanical specifications are as follows:

FEATURES:

- ☑ Power supply : Vdd: 1.8V ± 0.1V, Vddq: 1.8V ± 0.1V
- ☑ Double-data-rate architecture; two data transfers per clock cycle
- ☑ Bidirectional data strobe(DQS)
- ☑ Differential clock inputs(CK and CK)
- ☑ DLL aligns DQ and DQS transition with CK transition
- ☑ Programmable Read latency 3, 4, 5 (clock)
- ☑ Burst Length: 4, 8 (Interleave/nibble sequential)
- ☑ Programmable Burst type (sequential & interleave)
- ☑ Timing Reference: 800MHz 5-5-5-15-2T at +1.9V / 800MHz 4-4-4-12 at +2.0V
- ☑ Edge aligned data output, center aligned data input
- ☑ Auto & Self refresh, 7.8us refresh interval (8K/64ms refresh)
- ☑ Serial presence detect with EEPROM
- ☑ High Performance Heat Spreader
- ☑ PCB : Height 1.180" (30.00mm), single sided component

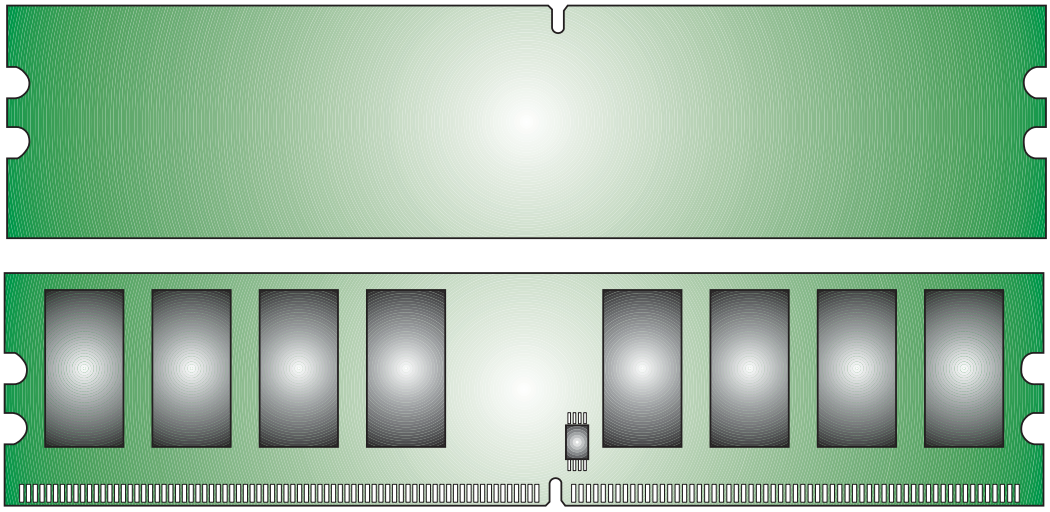
PERFORMANCE:

☑ Clock Cycle Time (tCK) CL=5	3ns (min.) / 8ns (max.)
☑ Row Cycle Time (tRC)	54ns (min.)
☑ Refresh to Active/Refresh Command Time (tRFC)	105ns
☑ Row Active Time (tRAS)	39ns (min.) / 70,000ns (max.)
☑ Single Power Supply of	+1.8V (+/- .1V)
☑ Power	1.622 W (operating per module)
☑ UL Rating	94 V - 0
☑ Operating Temperature	0° C to 55° C
☑ Storage Temperature	-55° C to +125° C

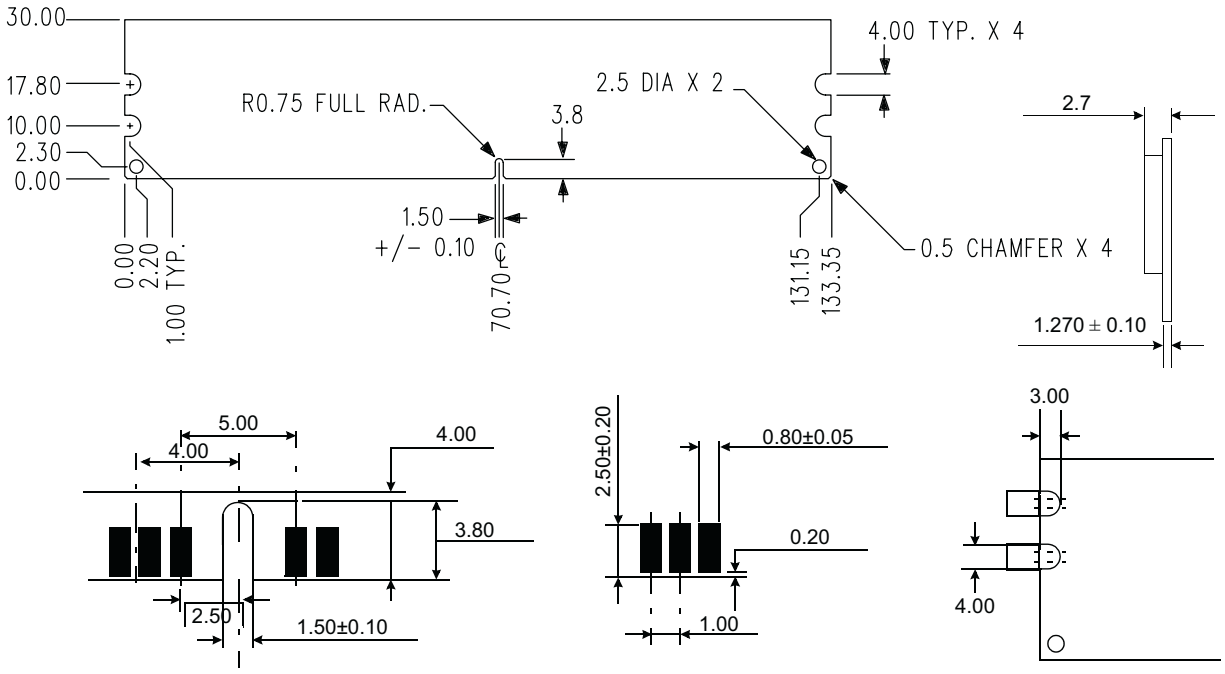


Preliminary

MODULE DIMENSIONS:



Units: millimeters



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All Kingston products are tested to meet our published specifications. Some motherboards or system configurations may not operate at the published HyperX memory speeds and timing settings. Kingston does not recommend that any user attempt to run their computers faster than the published speed. Overclocking or modifying your system timing may result in damage to computer components.